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NOTICE OF ALLOWANCE AND FEE(S) DUE

27045

7590

09/20/2010

ERICSSON INC. 6300 LEGACY DRIVE M/S EVR 1-C-11 PLANO, TX 75024

EXAMINER AHMED, HAMDY S ART UNIT PAPER NUMBER

2186

DATE MAILED: 09/20/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/598,714	03/08/2007	Anders Berkeman	P18536-US2	9238

TITLE OF INVENTION: ADDRESS GENERATOR FOR AN INTERLEAVER MEMORY AND A DEINTERLEAVER MEMORY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/20/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:**

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address 27045 7590 09/20/2010 ERICSSON INC. 6300 LEGACY DRIVE M/S EVR 1-C-11			Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
				Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.		
PLANO, TX 75	024					(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	. A	ITORNEY DOCKET NO.	CONFIRMATION NO.
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APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE F	EE TOTAL FEE(S) DUE	DATE DUE
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EXAM	MINER	ART UNIT	CLASS-SUBCLASS]		
AHMED,	HAMDY S	2186	711-005000	•		
"Fee Address" inc PTO/SB/47; Rev 03- Number is required 3. ASSIGNEE NAME A	AND RESIDENCE DATA	" Indication form ted. Use of a Customer A TO BE PRINTED ON		vely, le firm (having as a magent) and the names or news or agents. If no printed. pe) atent. If an assignee assignment.	ember a 2	locument has been filed for
4a. The following fee(s) Issue Fee Publication Fee (1)	riate assignee category or	4l permitted)	b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car	Individual Corporate first reapply any part. Form PTO-2038 is	oration or other private gr previously paid issue fee attached.	oup entity Government shown above) eficiency, or credit any in extra copy of this form).
a. Applicant clain	ntus (from status indicate	ıs. See 37 CFR 1.27.	☐ b. Applicant is no lon	ger claiming SMALL	ENTITY status. See 37 C	FR 1.27(g)(2).
NOTE: The 1ssue Fee ar interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte ites Patent and Trademark	d from anyone other than to COffice.	the applicant; a registe	red attorney or agent; or the	he assignee or other party in
Authorized Signature	, <u> </u>			Date		
Typed or printed name			Registration No			
an application. Confider submitting the complete this form and/or suggest	ntiality is governed by 35 dapplication form to the ions for reducing this bu Virginia 22313-1450. DO	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection is estailed to the collection of the individual Chief Information Office	timated to take 12 min vidual case. Any comr er, U.S. Patent and Tra	tutes to complete, including the ments on the amount of tindemark Office, U.S. Dep	d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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ERICSSON INC.			AHMED, HAMDY S		
6300 LEGACY DRIVE M/S EVR 1-C-11 PLANO, TX 75024			ART UNIT	PAPER NUMBER	
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PLANO, 1A 7502	r		DATE MAILED: 09/20/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 573 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 573 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
Madian of Allegarith	10/598,714	BERKEMAN, ANDERS
Notice of Allowability	Examiner	Art Unit
	HAMDY S. AHMED	2186
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. X This communication is responsive to Amendment after fina	<u>al filed on 08/20/2010</u> .	
2. ☑ The allowed claim(s) is/are <u>35-84</u> .		
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm 	been received. been received in Application No cuments have been received in this in of this communication to file a reply IENT of this application.	national stage application from the complying with the requirements
INFORMAL PATENT APPLICATION (PTO-152) which give		
 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the deponsion of the	on's Patent Drawing Review (PTO- s Amendment / Comment or in the C .84(c)) should be written on the drawing the header according to 37 CFR 1.121(c	office action of ngs in the front (not the back) of a). nust be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amenda 8. Examiner's Stateme 9. Other	(PTO-413), e

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ronald S. Liu (RG No: 64,170) on 09/9/2010.

The application has been amendment as follows:

In the claims:

In claim 84 at line 2 before "computer readable" add "non transitory"

Reasons for allowance

The following is an examiner's statement of reasons for allowance:

Claims 1-34 are cancelled

Claims 35-84 are allowed.

Claims 35, 52, 77 and 79 the limitation of"... a method for generating an address value for addressing a memory which is an interleaver or deinterleaver memory, comprising the steps of: generating a plurality of address fragments; comparing only a fraction of the generated address fragments with a maximum allowable value; wherein generating a plurality of address fragments further comprises the step of generating a first address fragment for a first address value, and", is well known. However the prior art of record, specifically Agrawal et al ("US 6,314,534 B1"), taken either individually or

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combination fails to teach or suggest the limitation of"... a second address fragment, which is consecutive of the first address fragment, for a second address value; and wherein the step of comparing only a fraction of the generated address fragments with a maximum allowable value further comprises the step of comparing only every other address fragment of the plurality of address fragments with the maximum allowable value, whereby the step of comparing comprises comparing the first address fragment with the maximum allowable value".

Claims 50 and 75 the limitation of"... a method for generating an address value for addressing a memory which is an interleaver or deinterleaver memory comprising the steps of: generating a plurality of address fragments by generating a first address fragment for a first address value and", is well known. However the prior art of record, specifically Agrawal et al ("US 6,314,534 B1"), taken either individually or combination fails to teach or suggest the limitation of" a second address fragment, which is consecutive of the first address fragment, for a second address value; and comparing only a fraction of the generated address fragments by comparing only every other address fragment of the plurality of address fragments with stored address fragments, which are known to be out of range when permuted and comparing the first address of fragment with the stored address fragments".

As to claim 84 the limitation of"... a software program product embodied on a computer readable medium executable by computer hardware when the product is executed by a processor contained in said computer hardware, the product having instructions comprising: generating an address value for addressing a memory which is

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an interleaver or deinterleaver memory; generating a plurality of address fragments, and ", is well known. However the prior art of record, specifically Agrawal et al ("US 6,314,534 B1"), taken either individually or combination fails to teach or suggest the limitation of"... comparing only a fraction of the generated address fragments with a maximum allowable value; when generating a plurality of address fragments, generating a first address fragment for a first address value, and a second address fragment, which is consecutive of the first address fragment, for a second address value; and when comparing only a fraction of the generated address fragments with a maximum allowable value, comparing only every other address fragment of the plurality of address fragments with the maximum allowable value, whereby the step of comparing comprises comparing the first address fragment with the maximum allowable value".

Examiner amendment for claim 84 has been done to overcome USC 101 issue.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HAMDY S. AHMED whose telephone number is

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(571)270-1027. The examiner can normally be reached on M-TR 7:30-5:00pm and Every 2nd Friday 7:30-4:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bragdon Reginald can be reached on 571-272-4204. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hamdy S Ahmed/

Examiner, Art Unit 2186

/Reginald G. Bragdon/

Supervisory Patent Examiner, Art Unit 2189